

Notice of Allowability

Application No.

08/082,328

Examiner

John B. Vigushin

Applicant(s)

KNIGHT ET AL.

Art Unit

2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *Applicant's Amendment filed 23 April 2003*.
2. ☒ The allowed claim(s) is/are 1,28,37-48,52-59,102,143,144,146,147 and 210-224.
3. ☒ The drawings filed on 26 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

DETAILED ACTION

1. The present Office Action is responsive to Applicant's amendment filed April 23, 2003. The Examiner acknowledges the amendments to the Specification and Claims 1, 28, 52, 59 and 223. Claims 1, 28, 37-48, 52-59, 102, 143, 144, 146, 147 and 210-224 remain pending in the instant Application.

Allowable Subject Matter

2. Claims 1, 28, 37-48, 52-59, 102, 143, 144, 146, 147 and 210-224 have been allowed.

3. The following is an examiner's statement of reasons for allowance:

As to Claims 1, 37-43, 45-48, 53-58 and 210-216, patentability resides in a *ground plane in the substrate*, in combination with the other limitations of base Claim 1.

As to Claim 28, patentability resides in a *ground plane in the substrate*, in combination with the other limitations of the claim.

As to Claim 44, patentability resides in a *power connector extending through the dielectric*, in combination with the other limitations of the claim.

As to Claim 52, patentability resides in the limitation wherein *the means for capacitively signaling operates despite a substantial misalignment between the substrate and the chip*, in combination with the other limitations of the claim.

As to Claim 59, patentability resides in a *ground plane in the substrate*, in combination with the other limitations of the claim.

As to Claims **102**, 143, 144, 146, 147 and 217-222, patentability resides in **the combination of the first module having at least one signal lead connecting the plurality of semiconductor electronic devices to the first half-capacitor and the modular electronic system comprising contacts for supplying DC power to the first module from a source outside the first module**, in further combination with the other limitations of base Claim **102**.

As to Claims **223-224**, patentability resides in *a ground plane supported by the substrate*, in combination with the other limitations of base Claim **223**.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Claims 1, 37-39, 53-58, 40-43, 45-48, 210-216, 28, 44, 52, 59, 102, 143, 144, 146, 147 and 217-224 of the instant allowed Application will be renumbered as Claims 1-42, respectively, for publication in the issued patent.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Vigushin whose telephone number is 703-308-1205. The examiner can normally be reached on 8:30AM-5:00PM Mo-Fri.

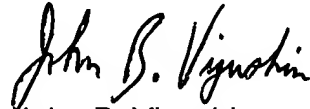
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers

Art Unit: 2827

for the organization where this application or proceeding is assigned are 703-308-7382

for regular communications and 703-308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



John B. Vigushin
Examiner
Art Unit 2827

jbv
May 24, 2003